ANDREW GAO

7 Davis Road, Southborough, MA 01772 **|** (508) 808-3502 **|** andrewxgao@gmail.com

EDUCATION

Algonquin Regional High School   **Northborough, MA**
Senior   *Expected Graduation: Jun 2018*
- GPA (weighted): **4.96/5.00**, Rank: **12/343**
- ACT: **35/36**, SAT: **1560/1600**, PSAT: **1490/1520**, SAT Subject Tests: Math 2 (**800/800**), Chemistry (**800/800**)
- APs: Chemistry (**5**), Computer Science A (**5**), English Language and Composition (**5**), U.S. History (**4**), World History (**4**)
- Awards: National Honor Society, Science National Honor Society, Mu Alpha Theta, RIT Computing Medal, University of Rochester Bausch & Lomb Award, St. Michael's Book Award, French Academic Excellence Award, National Merit Scholarship Semifinalist, AP Scholar with Distinction, Principal's List every semester

WORK EXPERIENCE

Worcester Polytechnic Institute Bioinformatics & Computational Biology   **Worcester, MA**
Android Application Developer   *Jun 2017 – Present*
- Rebuilt user interface for an Android application that collects data on locations of threatened bumblebees in New England
- Implemented changes to Android application using Java and XML in Android Studio

Self-Employed (Fiverr)   **Southborough, MA**
Freelance Graphics Designer   *Oct 2014 – Present*
- Designed custom social media graphics using GIMP for over 80 clients in 10 different countries
- Maintained a 5-star rating since inception and favorited by over 170 users

VOLUNTEER EXPERIENCE

Yingkou Thrombosis Hospital   **Yingkou, Liaoning, China**
Volunteer   *Aug 2017*
- Shadowed lead radiologist and technicians for 100+ hours in order to learn about ultrasound, X-rays, and CT scans
- Observed laparoscopic surgery of the uterus and surgical procedures during a visit to the Yingkou Central Hospital
- Helped run general hospital errands and set up rooms in the newly opened hospital

Selecta Biosciences   **Watertown, MA**
Selected Shadow Program Participant   *Aug 2016*
- Shadowed Head of Chemistry in the lab for a clinical-stage biopharmaceutical company, learning about lab procedures, pharmaceutical development, and drug delivery mechanisms
- Assisted in preparation of buffer solutions for protein conjugation

Algonquin Peer Tutoring   **Northborough, MA**
Tutor   *Oct 2016 – Present*
- Tutored fellow students in chemistry, geometry, precalculus after school for multiple hours each month

LEADERSHIP & ACTIVITIES

Algonquin Mu Alpha Theta, Mathematics Honor Society   **Northborough, MA**
Founding Member & Treasurer   *Dec 2016 – Present*
- Founded local Mu Alpha Theta chapter to promote and recognize mathematical scholarship in the school
- Managed collection of dues and organized fundraisers each semester

Algonquin Science Research Club   **Northborough, MA**
Founder & President   *Sep 2016 – Present*
- Designed and programmed Arduino boards in order to measure light levels on the roof of the school
- Created a kinetic mural dedicated to school's retiring principal, incorporating solar panels and 3-D printed parts

Algonquin Health Occupations Students of America (HOSA)   **Northborough, MA**
Senior Member & Project Committee Member   *Sep 2015 – Present*
- Awarded first place in the EMT event of the 2017 Massachusetts HOSA competition
- Planned school-wide events such as an American Heart Association fundraiser and an experiment about test-taking strategies

Algonquin FRC Team 1100 Robotics   **Northborough, MA**
Senior Member, Manipulator Subteam   *Sep 2014 – Present*
- Used Solidworks CAD and power tools to design and engineer various parts for precise object placement
- Volunteered at local events such as Applefest, Heritage Day, and FLL qualifiers for community outreach

Algonquin Math Team   **Northborough, MA**
Varsity Team A Member   *Sep 2014 – Present*
- Achieved highest score of all team upperclassmen, ranking top 30 in the Worcester County Math League for 2016-17
- Assisted in organizing practices and recruiting over ten new members

SKILLS & INTERESTS

Languages: Mandarin Chinese (Conversational), French (Basic)
Computers: GIMP, Java, XML, C++, HTML, CSS, Bash, Batch, Linux, Terminal, Blender VSE, Solidworks
Interests: Volleyball (Varsity setter and JV co-captain), Music (Piano and alto saxophone), Programming, Graphics, Drawing, Photography